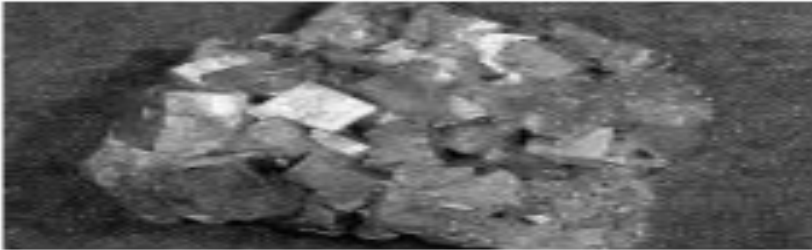


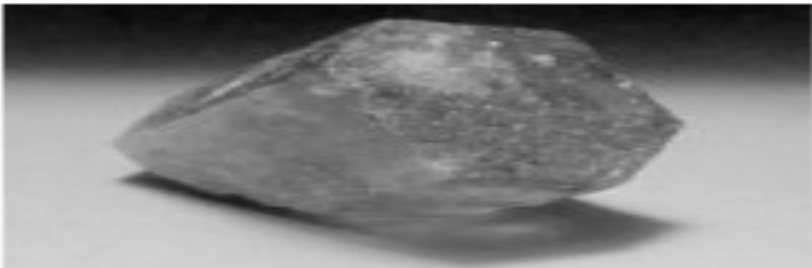
HOW MINERALS FORM



Galena Cubes



Pyrite Pyritohedrons



Hexagonal Beryl



Calcite Scalenohedrons



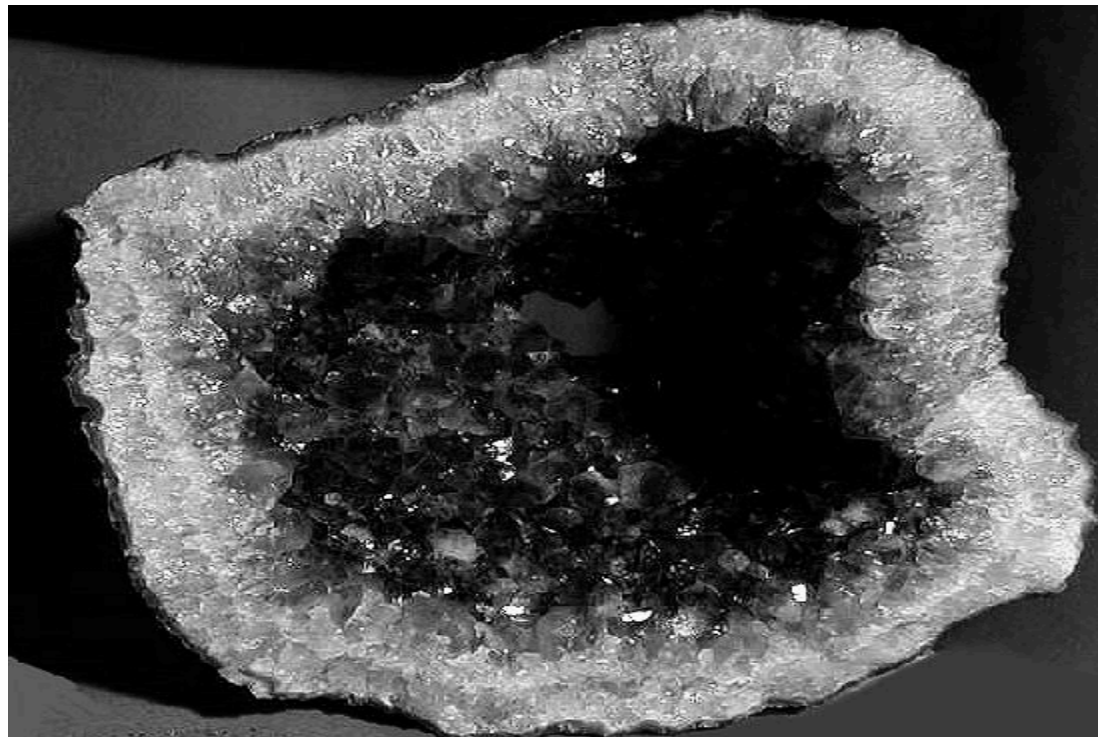
Tabular Wulfenite



Prismatic Stibnite

HOW MINERALS FORM

1. Crystallization - The process by which atoms are arranged to form a material with a crystal structure



HOW MINERALS FORM

2. Two ways in which minerals can form-
1) crystallization of magma, 2)
crystallization of materials dissolved in
water

HOW MINERALS FORM

3. Minerals from Magma and Lava -
When these liquids cool to a solid state,
they form crystals



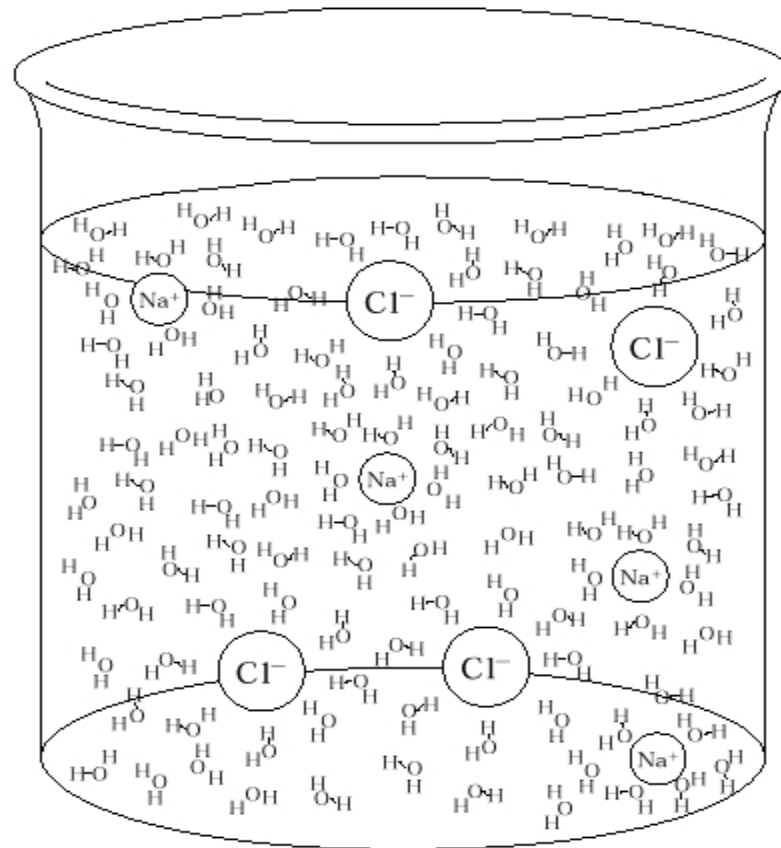
HOW MINERALS FORM

4. Size of crystals depends on - 1) the rate at which the magma/lava cools, 2) the amount of gas the magma/lava contains, 3) the chemical composition of the magma/lava



HOW MINERALS FORM

5. Solution - A mixture in which one substance is dissolved in another



HOW MINERALS FORM

6. Minerals formed by Evaporation -
When ancient seas slowly evaporated,
minerals formed (halite, gypsum, calcite)

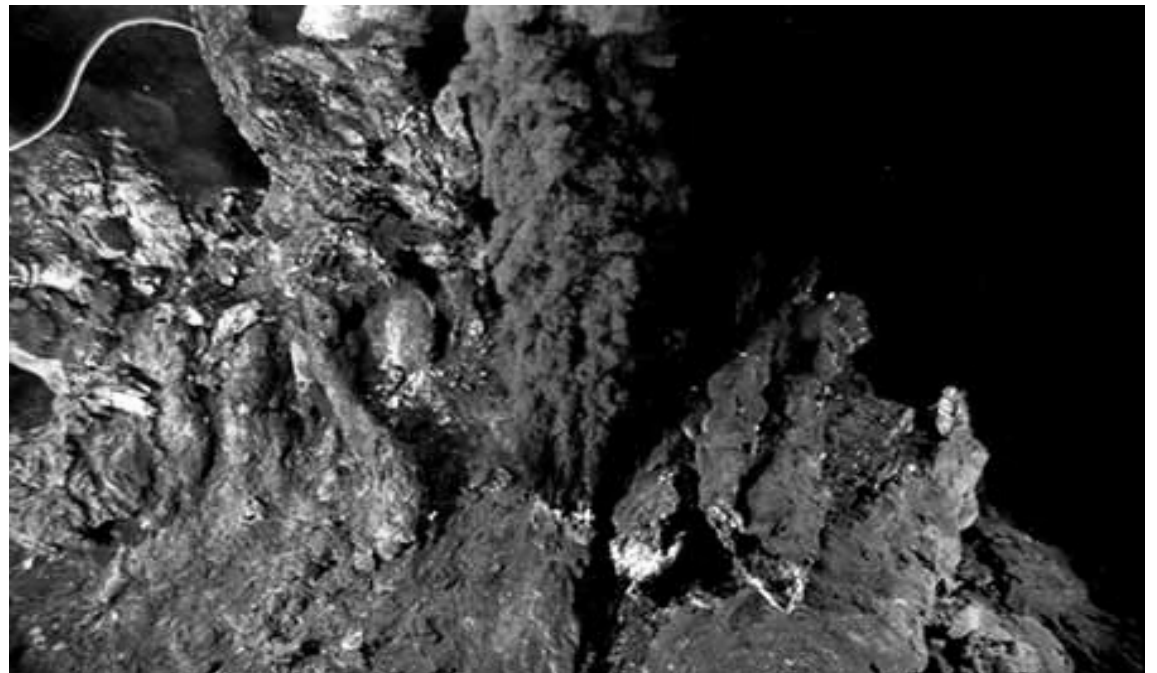


Lots of Salt.

HOW MINERALS FORM

7. Minerals from Hot Water Solutions -
Elements that form minerals dissolve in
hot water underground; when the
solution cools, the elements crystallize
as minerals

These iron-rich
minerals formed
at an undersea
vent



HOW MINERALS FORM

8. Vein - A narrow channel or slab of a mineral that is different from the surrounding rock; usually pure metals



Silver Vein in Mexico

Location of Production for Nine Important Minerals

